HEAD GIMBAL ASSEMBLY WITH INTEGRATED ELECTRICAL CONDUCTORS

ABSTRACT

A single piece head gimbal assembly(170) comprised of a load beam(174), a pair of flexure arms(176, 178), a slider support member(182, 184) and a plurality of electrical lines(202). The head gimbal assembly is formed from a laminated material comprised of a support layer, a dielectric layer and a high strength electrically conductive layer. The electrical lines are formed in the high strength electrically conductive layer and extend along the backside of the load beam. The backside surface(194) of a slider(186) is accessible through an aperture(210) formed between the flexure arms and the electrical lines are terminated to the backside of the slider. Alternatively, the electrical lines extend along the backside or frontside of the load beam and are terminated to the trailing edge of the slider.

Figure 7

This Sheet Has Been Replaced

